

# SEQUENCE LISTING

<110> YE, Jane et al

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ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
THEREOF

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 ggggatg 148567

<210> 4  
 <211> 404  
 <212> PRT  
 <213> Mus Musculus

<400> 4  
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 Glu Val Asn Phe Asp His Phe Gln Ile Leu Arg Ala Ile Gly Lys Gly  
 20 25 30  
 Ser Phe Gly Lys Val Cys Ile Val Gln Lys Arg Asp Thr Lys Lys Met  
 35 40 45  
 Tyr Ala Met Lys Tyr Met Asn Lys Gln Lys Cys Val Gln Glu Arg Asp  
 50 55 60  
 Glu Val Arg Asn Val Phe Arg Glu Leu Gln Ile Met Gln Gly Leu Glu  
 65 70 75 80  
 His Pro Phe Leu Val Asn Leu Trp Tyr Ser Phe Gln Asp Glu Glu Asp  
 85 90 95  
 Met Phe Met Val Val Asp Leu Leu Leu Gly Gly Asp Leu Arg Tyr His  
 100 105 110  
 Leu Gln Gln Asn Val His Phe Thr Glu Gly Thr Val Lys Leu Tyr Ile  
 115 120 125  
 Cys Glu Leu Ala Leu Ala Leu Glu Tyr Leu Gln Arg Tyr His Ile Ile  
 130 135 140  
 His Arg Asp Ile Lys Pro Asp Asn Ile Leu Leu Asp Glu His Gly His  
 145 150 155 160  
 Val His Ile Thr Asp Phe Asn Ile Ala Thr Val Leu Lys Gly Ser Glu  
 165 170 175  
 Lys Ala Ser Ser Met Ala Gly Thr Lys Pro Tyr Met Ala Pro Glu Val  
 180 185 190  
 Phe Gln Val Tyr Val Asp Gly Gly Pro Gly Tyr Ser Tyr Pro Val Asp  
 195 200 205  
 Trp Trp Ser Leu Gly Val Thr Ala Tyr Glu Leu Leu Arg Gly Trp Arg  
 210 215 220  
 Pro Tyr Glu Ile His Ser Ala Thr Pro Ile Asp Glu Ile Leu Asn Met  
 225 230 235 240  
 Phe Lys Val Glu Arg Val His Tyr Ser Ser Thr Trp Cys Glu Gly Met  
 245 250 255  
 Val Ser Leu Leu Lys Lys Leu Leu Thr Lys Asp Pro Glu Ser Arg Leu  
 260 265 270  
 Ser Ser Leu Arg Asp Ile Gln Ser Met Thr Tyr Leu Ala Asp Met Asn  
 275 280 285  
 Trp Asp Ala Val Phe Glu Lys Ala Leu Met Pro Gly Phe Val Pro Asn  
 290 295 300  
 Lys Gly Arg Leu Asn Cys Asp Pro Thr Phe Glu Leu Glu Glu Met Ile  
 305 310 315 320  
 Leu Glu Ser Lys Pro Leu His Lys Lys Lys Lys Arg Leu Ala Lys His  
 325 330 335  
 Arg Ser Arg Asp Ser Thr Lys Asp Ser Cys Pro Leu Asn Gly His Leu  
 340 345 350  
 Gln Gln Cys Leu Glu Thr Val Arg Lys Glu Phe Ile Ile Phe Asn Arg

355                      360                      365  
 Glu Lys Leu Arg Arg Gln Gln Gly His Asp Gly Gln Leu Ser Asp Leu  
 370                      375                      380  
 Asp Gly Arg Ile Gly Ser Gln Thr Ser Ser Lys Leu Gln Asp Gly Arg  
 385                      390                      395                      400  
 Asn Asn Asn Ile

<210> 5  
 <211> 403  
 <212> PRT  
 <213> Human

<400> 5  
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 20                      25                      30  
 Ser Phe Gly Lys Val Cys Ile Val Gln Lys Arg Asp Thr Lys Lys Met  
 35                      40                      45  
 Tyr Ala Met Lys Tyr Met Asn Lys Gln Lys Cys Ile Glu Arg Asp Glu  
 50                      55                      60  
 Val Arg Asn Val Phe Arg Glu Leu Gln Ile Met Gln Gly Leu Glu His  
 65                      70                      75                      80  
 Pro Phe Leu Val Asn Leu Trp Tyr Ser Phe Gln Asp Glu Glu Asp Met  
 85                      90                      95  
 Phe Met Val Val Asp Leu Leu Leu Gly Gly Asp Leu Arg Tyr His Leu  
 100                      105                      110  
 Gln Gln Asn Val His Phe Thr Glu Gly Thr Val Lys Leu Tyr Ile Cys  
 115                      120                      125  
 Glu Leu Ala Leu Ala Leu Glu Tyr Leu Gln Arg Tyr His Ile Ile His  
 130                      135                      140  
 Arg Asp Ile Lys Pro Asp Asn Ile Leu Leu Asp Glu His Gly His Val  
 145                      150                      155                      160  
 His Ile Thr Asp Phe Asn Ile Ala Thr Val Val Lys Gly Ala Glu Arg  
 165                      170                      175  
 Ala Ser Ser Met Ala Gly Thr Lys Pro Tyr Met Ala Pro Glu Val Phe  
 180                      185                      190  
 Gln Val Tyr Met Asp Arg Gly Pro Gly Tyr Ser Tyr Pro Val Asp Trp  
 195                      200                      205  
 Trp Ser Leu Gly Ile Thr Ala Tyr Glu Leu Leu Arg Gly Trp Arg Pro  
 210                      215                      220  
 Tyr Glu Ile His Ser Val Thr Pro Ile Asp Glu Ile Leu Asn Met Phe  
 225                      230                      235                      240  
 Lys Val Glu Arg Val His Tyr Ser Ser Thr Trp Cys Lys Gly Met Val  
 245                      250                      255  
 Ala Leu Leu Arg Lys Leu Leu Thr Lys Asp Pro Glu Ser Arg Val Ser  
 260                      265                      270  
 Ser Leu His Asp Ile Gln Ser Val Pro Tyr Leu Ala Asp Met Asn Trp  
 275                      280                      285  
 Asp Ala Val Phe Lys Lys Ala Leu Met Pro Gly Phe Val Pro Asn Lys  
 290                      295                      300  
 Gly Arg Leu Asn Cys Asp Pro Thr Phe Glu Leu Glu Glu Met Ile Leu  
 305                      310                      315                      320  
 Glu Ser Lys Pro Leu His Lys Lys Lys Lys Arg Leu Ala Lys Asn Arg  
 325                      330                      335  
 Ser Arg Asp Gly Thr Lys Asp Ser Cys Pro Leu Asn Gly His Leu Gln  
 340                      345                      350  
 His Cys Leu Glu Thr Val Arg Glu Glu Phe Ile Ile Phe Asn Arg Glu  
 355                      360                      365  
 Lys Leu Arg Arg Gln Gln Gly Gln Gly Ser Gln Leu Leu Asp Thr Asp  
 370                      375                      380

Ser Arg Gly Gly Gly Gln Ala Gln Ser Lys Leu Gln Asp Gly Cys Asn  
 385 390 395 400  
 Asn Asn Leu

<210> 6  
 <211> 384  
 <212> PRT  
 <213> Mus Musculus

<400> 6  
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 1 5 10 15  
 His Phe Gln Ile Leu Arg Ala Ile Gly Lys Gly Ser Phe Gly Lys Val  
 20 25 30  
 Cys Ile Val Gln Lys Arg Asp Thr Glu Lys Met Tyr Ala Met Lys Tyr  
 35 40 45  
 Met Asn Lys Gln Gln Cys Ile Glu Arg Asp Glu Val Arg Asn Val Phe  
 50 55 60  
 Arg Glu Leu Glu Ile Leu Gln Glu Ile Glu His Val Phe Leu Val Asn  
 65 70 75 80  
 Leu Trp Tyr Ser Phe Gln Asp Glu Glu Asp Met Phe Met Val Val Asp  
 85 90 95  
 Leu Leu Leu Gly Gly Asp Leu Arg Tyr His Leu Gln Gln Asn Val Gln  
 100 105 110  
 Phe Ser Glu Asp Thr Val Arg Leu Tyr Ile Cys Glu Met Ala Leu Ala  
 115 120 125  
 Leu Asp Tyr Leu Arg Ser Gln His Ile Ile His Arg Asp Val Lys Pro  
 130 135 140  
 Asp Asn Ile Leu Leu Asp Glu Gln Gly His Ala His Leu Thr Asp Phe  
 145 150 155 160  
 Asn Ile Ala Thr Ile Ile Lys Asp Gly Glu Arg Ala Thr Ala Leu Ala  
 165 170 175  
 Gly Thr Lys Pro Tyr Met Ala Pro Glu Ile Phe His Ser Phe Val Asn  
 180 185 190  
 Gly Gly Thr Gly Tyr Ser Phe Glu Val Asp Trp Trp Ser Val Gly Val  
 195 200 205  
 Met Ala Tyr Glu Leu Leu Arg Gly Trp Arg Pro Tyr Asp Ile His Ser  
 210 215 220  
 Ser Asn Ala Val Glu Ser Leu Val Gln Leu Phe Ser Thr Val Ser Val  
 225 230 235 240  
 Gln Tyr Val Pro Thr Trp Ser Lys Glu Met Val Ala Leu Leu Arg Lys  
 245 250 255  
 Leu Leu Thr Val Asn Pro Glu His Arg Phe Ser Ser Leu Gln Asp Met  
 260 265 270  
 Gln Thr Ala Pro Ser Leu Ala His Val Leu Trp Asp Asp Leu Ser Glu  
 275 280 285  
 Lys Lys Val Glu Pro Gly Phe Val Pro Asn Lys Gly Arg Leu His Cys  
 290 295 300  
 Asp Pro Thr Phe Glu Leu Glu Glu Met Ile Leu Glu Ser Arg Pro Leu  
 305 310 315 320  
 His Lys Lys Lys Lys Arg Leu Ala Lys Asn Lys Ser Arg Asp Ser Ser  
 325 330 335  
 Arg Asp Ser Ser Gln Ser Glu Asn Asp Tyr Leu Gln Asp Cys Leu Asp  
 340 345 350  
 Ala Ile Gln Gln Asp Phe Val Ile Phe Asn Arg Glu Lys Leu Lys Arg  
 355 360 365  
 Ser Gln Glu Leu Met Ser Glu Pro Pro Pro Gly Pro Glu Thr Ser Asp  
 370 375 380

<210> 7

<211> 316  
 <212> PRT  
 <213> Homo sapiens

<400> 7  
 Tyr Ser Phe Gln Asp Glu Glu Asp Met Phe Met Val Val Asp Leu Leu  
 1 5 10 15  
 Leu Gly Gly Asp Leu Arg Tyr His Leu Gln Gln Asn Val His Phe Thr  
 20 25 30  
 Glu Gly Thr Val Lys Leu Tyr Ile Cys Glu Leu Ala Leu Ala Leu Glu  
 35 40 45  
 Tyr Leu Gln Arg Tyr His Ile Ile His Arg Asp Ile Lys Pro Asp Asn  
 50 55 60  
 Ile Leu Leu Asp Glu His Gly His Val His Ile Thr Asp Phe Asn Ile  
 65 70 75 80  
 Ala Thr Val Val Lys Gly Ala Glu Arg Ala Ser Ser Met Ala Gly Thr  
 85 90 95  
 Lys Pro Tyr Met Ala Pro Glu Val Phe Gln Val Tyr Met Asp Arg Gly  
 100 105 110  
 Pro Gly Tyr Ser Tyr Pro Val Asp Trp Trp Ser Leu Gly Ile Thr Ala  
 115 120 125  
 Tyr Glu Leu Leu Arg Gly Trp Arg Pro Tyr Glu Ile His Ser Val Thr  
 130 135 140  
 Pro Ile Asp Glu Ile Leu Asn Met Phe Lys Val Glu Arg Val His Tyr  
 145 150 155 160  
 Ser Ser Thr Trp Cys Lys Gly Met Val Ala Leu Leu Arg Lys Leu Leu  
 165 170 175  
 Thr Lys Asp Pro Glu Ser Arg Val Ser Ser Leu His Asp Ile Gln Ser  
 180 185 190  
 Val Pro Tyr Leu Ala Asp Met Asn Trp Asp Ala Val Phe Lys Lys Ala  
 195 200 205  
 Leu Met Pro Gly Phe Val Pro Asn Lys Gly Arg Leu Asn Cys Asp Pro  
 210 215 220  
 Thr Phe Glu Leu Glu Glu Met Ile Leu Glu Ser Lys Pro Leu His Lys  
 225 230 235 240  
 Lys Lys Lys Arg Leu Ala Lys Asn Arg Ser Arg Asp Gly Thr Lys Asp  
 245 250 255  
 Ser Cys Pro Leu Asn Gly His Leu Gln His Cys Leu Glu Thr Val Arg  
 260 265 270  
 Glu Glu Phe Ile Ile Phe Asn Arg Glu Lys Leu Arg Arg Gln Gln Gly  
 275 280 285  
 Gln Gly Ser Gln Leu Leu Asp Thr Asp Ser Arg Gly Gly Gly Gln Ala  
 290 295 300  
 Gln Ser Lys Leu Gln Asp Gly Cys Asn Asn Asn Leu  
 305 310 315

<210> 8  
 <211> 347  
 <212> PRT  
 <213> Caenorhabditis elegans

<400> 8  
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 Cys Ile Val Gln Glu Arg Lys Thr Lys Lys Tyr Phe Ala Leu Lys Tyr  
 20 25 30  
 Met Asn Lys Arg Arg Cys Ile Glu Lys Gly Val Ala Ala Asn Val Ile  
 35 40 45  
 Arg Glu Leu Thr Leu Leu Ser Lys Met Ser His Pro Phe Ile Val Asn  
 50 55 60  
 Leu Trp Tyr Thr Phe Gln Asp Gly Asp Tyr Met Tyr Met Val Ser Asp  
 65 70 75 80

Leu	Leu	Leu	Gly	Gly	Asp	Leu	Arg	Tyr	His	Leu	Ser	Gln	Gln	Gly	Lys
				85					90					95	
Phe	Ala	Glu	Asp	Arg	Ala	Lys	Leu	Tyr	Leu	Cys	Glu	Ile	Cys	Leu	Ala
			100					105					110		
Val	Glu	Tyr	Leu	His	Glu	Met	Lys	Ile	Val	His	Arg	Asp	Ile	Lys	Pro
			115				120					125			
Glu	Asn	Ile	Leu	Leu	Asp	Glu	Gln	Gly	His	Ala	His	Leu	Thr	Asp	Leu
			130				135				140				
Asn	Leu	Ala	Thr	Gln	Leu	Glu	Asp	Asp	Gln	Leu	Ala	Thr	Ser	Tyr	Ser
145					150					155					160
Gly	Thr	Arg	Pro	Tyr	Met	Ala	Pro	Glu	Ile	Tyr	Ala	Thr	Tyr	Leu	Glu
				165					170						175
Ile	Glu	Asp	Gly	Tyr	Asp	Ser	Arg	Val	Asp	Trp	Trp	Ala	Leu	Gly	Val
			180					185					190		
Cys	Phe	Tyr	Glu	Met	Leu	Arg	Gly	Arg	Thr	Pro	Phe	Glu	Phe	Ser	Ser
			195				200					205			
Arg	Thr	Lys	Pro	Glu	Glu	Ala	Tyr	Val	Ala	Phe	Arg	Glu	Ser	Ser	Ile
			210			215				220					
Pro	Tyr	Pro	Ala	His	Trp	Pro	Thr	Asp	Leu	Ile	Gln	Phe	Ile	Asn	Ser
225					230					235					240
Met	Leu	Lys	Phe	Asp	Lys	Glu	Lys	Arg	Leu	Val	Gly	Leu	Glu	Ala	Ile
				245					250					255	
Lys	Lys	His	Ser	Tyr	Thr	Glu	Arg	Ile	Asp	Phe	Lys	Ser	Val	Phe	Glu
			260					265					270		
Lys	Lys	Pro	Ser	Pro	Val	Phe	Ile	Pro	Cys	Lys	Glu	Gly	Leu	Asn	Cys
		275					280					285			
Asp	Pro	Met	Tyr	Glu	Leu	Glu	Glu	Arg	Ile	Leu	Val	Ser	Thr	Pro	Ile
		290				295					300				
His	Arg	Arg	Arg	Thr	Asn	His	Asn	Asn	Ser	Ser	Gly	Arg	Ser	Ser	Ser
305					310					315					320
Glu	Pro	Gln	Asn	Ala	Ala	Leu	Val	Glu	Val	Ser	Lys	Ala	Phe	Ile	Asp
				325					330					335	
Phe	Ser	Arg	His	Asn	Val	Lys	Ile	Glu	Pro	Asn					
			340					345							